



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Issue application of: RONALDSON et al.

Attorney Docket No.: UDL1P044C1

Application No.: 10/075,965

Examiner: UNKNOWN

Filed: February 13, 2002

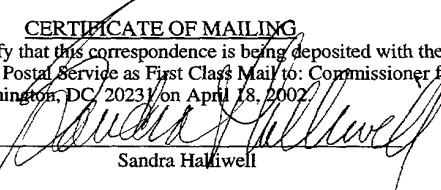
Group: 3641

COPY OF PAPERS
ORIGINALLY FILED

**Title: MONITORING A SAMPLE CONTAINING
A NEUTRON SOURCE**

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail to: Commissioner for Patents, Washington, DC 20231 on April 18, 2002.

Signed: 

Sandra Halliwell

PRELIMINARY AMENDMENT A

Commissioner for Patents
Washington, DC 20231

Dear Sir:

Please amend the above-identified patent application as follows:

In the Abstract:

Please add the following Abstract of the Disclosure. A clean copy of this Abstract is attached as an appendix hereto.

--MONITORING A SAMPLE CONTAINING A NEUTRON SOURCE

ABSTRACT OF THE DISCLOSURE

The invention considers the frequency distributions of singles, doubles and triple neutron emission events from a sample under assay. The count rates are equated to mathematical functions related to the spontaneous fission rate, self-induced fission rate, detection efficiency and α, n rate with probability distribution assigned to each of those factors, the value of the product of all the probability distributions being increased to give an optimised solution and so provide a value of the spontaneous fission rate which is linked to the mass of the neutron source. The technique aims to provide increased accuracy and certainty compared with neutron coincidence counting based techniques.--



COPY OF PAPER
ORIGINALLY FILED

REMARKS

Applicants believe that all pending claims are allowable and respectfully requests a Notice of Allowance for this application from the Examiner. Should the Examiner believe that a telephone conference would expedite the prosecution of this application, the undersigned can be reached at the telephone number set out below.

Respectfully submitted,
BEYER WEAVER & THOMAS, LLP



Steve D Beyer
Reg. No. 31,234

P.O. Box 778
Berkeley, CA 94704-0778
(650) 961-8300